Data Driven Practices

This initiative has two overarching tenants; Provide for cutting edge, scientifically based strategies to fight crime and to optimize the most efficient use of our patrol resources.

Description of Program

SPD is implementing evidence based practices to maximize the use of sophisticated tools and tactics, including predictive analytics, to proactively deploy our resources and anticipate criminal activity.

Expand the traditional Crime Analysis approach into a multi-disciplined structure to effectively focus on in-depth crime analysis, crime fighting, and staffing needs.

Sample Major Points

1

Develop a world class scientifically driven approach to crime fighting

Create tools and procedures to track our departments performance against outcomes that are meaningful to our community and hold ourselves accountable for the improvement of that outcome.

2

Purchase necessary real time mapping software and automated reporting tools

Leverage new tools that directly enhance the ability to identify, track, and correlate hot-spots, response times, patrol activity, and other variables instead of focusing on last years crime rates.

3

Drive deployment via reorganization of crime analysis structure to incorporate best practices

Establish a Predictive Policing and Strategic deployment Unit representing key knowledge areas to lead the department in utilizing cutting edge technologies and implementing nationwide best practices.

4

Incorporate community oriented approach into evidence based policing strategies

Create opportunities to connect community concerns and knowledge into our crime reduction strategies

Timeline Information

Apr 2012

Address CAU audit recommendations

Developed workgroup to standardize procedures, maps, and reports across all precincts and criminal investigations. Assess current and needed analytic software and training requirements to bring crime analysis capabilities in accordance with nationwide best practices.

Sept 2012

City-wide directed patrol deployment

Coordinated citywide, precinct level detailed analysis of calls for service concentrations. Implemented directed patrol strategies using Koper curve methodologies to reduce calls for service in "hot spots" in each precinct.

Feb 2013

Pilot predictive analytics software

Implement PredPol software in East and Southwest Precincts to predict future crime locations. Tactical deployment strategies will be tested to determine the more effective and efficient methods to address crime.

Mar 2013

Establish Predictive Policing and Strategic Deployment Unit

This section will enable SPD to streamline and standardize procedures, processes, and reporting both internally and externally for data requests, reporting, deployment, and analysis. The section incorporates a multi-disciplined approach to gain efficiencies within the organization.
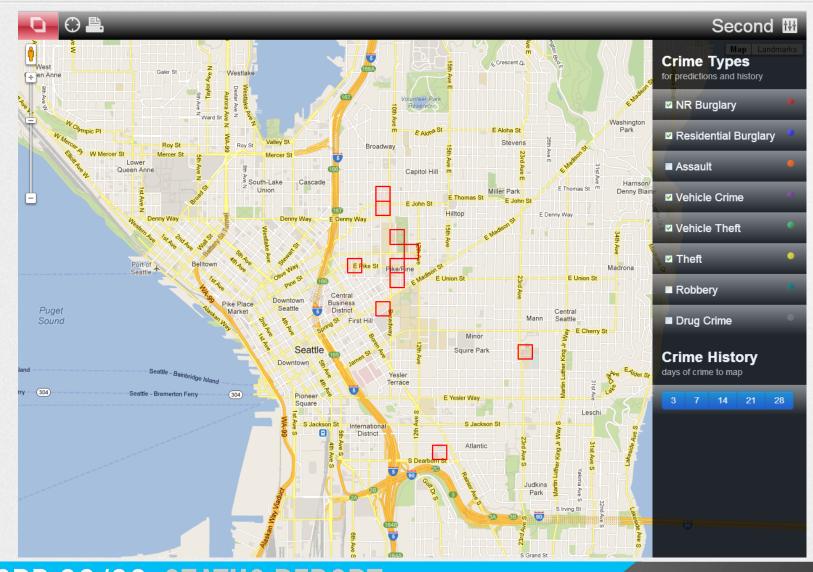
Org Structure

Section Detail

Data-Driven Commander
Civilian Criminologist
IT
GIS Specialist
CAU Sgt
Sustainment
NPP
W Pct Det
N Pct Det
E Pct Det
S Pct Det
Inv Bureau Det
SW Pct Det

Next steps – Predictive Policing

SPD is expanding its efforts to incorporate predictive analytics and other analytic tools into deployment operations at the precinct level. This is the next step in our evolution towards focusing on crime data to reduce city wide crime rates.

- SPD purchased PredPol to provide predictive analytic capabilities
- This software will enable precincts to focus officers proactive time more efficiently at locations where crime is predicted to occur
- Purchase "dashboard type" analytic tools to provide officers with real-time, on-demand information of crime trends and patterns at the precinct, sector, and beat levels.

PredPol – East Precinct

PredPol – Southwest Precinct